

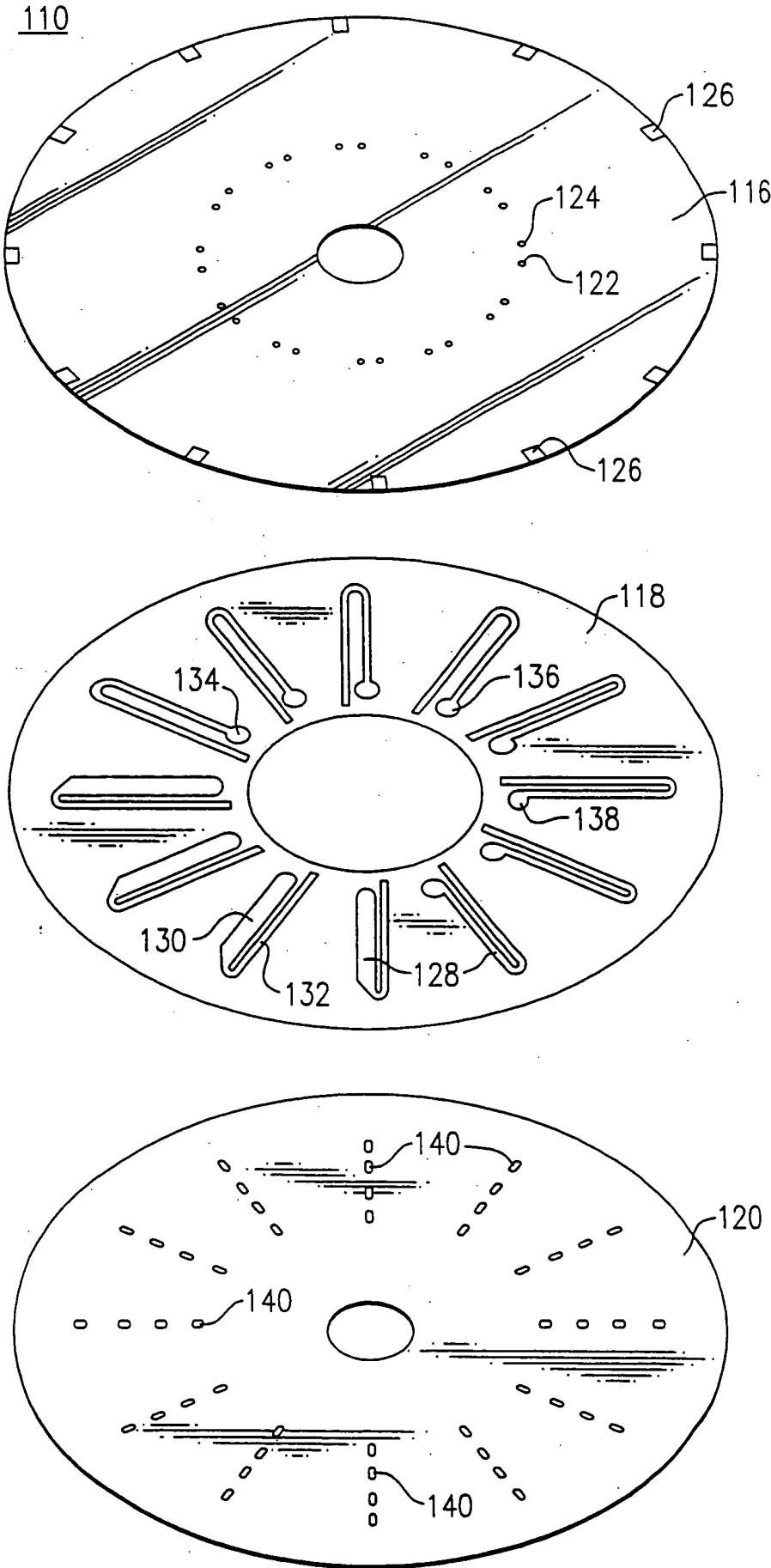
**FIG.1**

I certify that this document is being submitted to the U.S. Patent and Trademark Office under 37 C.F.R. § 1.10 on February 21, 2003 using U.S. Express Mail # EV183372521US

Ramon Valencia  
Print Name

*[Signature]*  
Signature

FIG.2



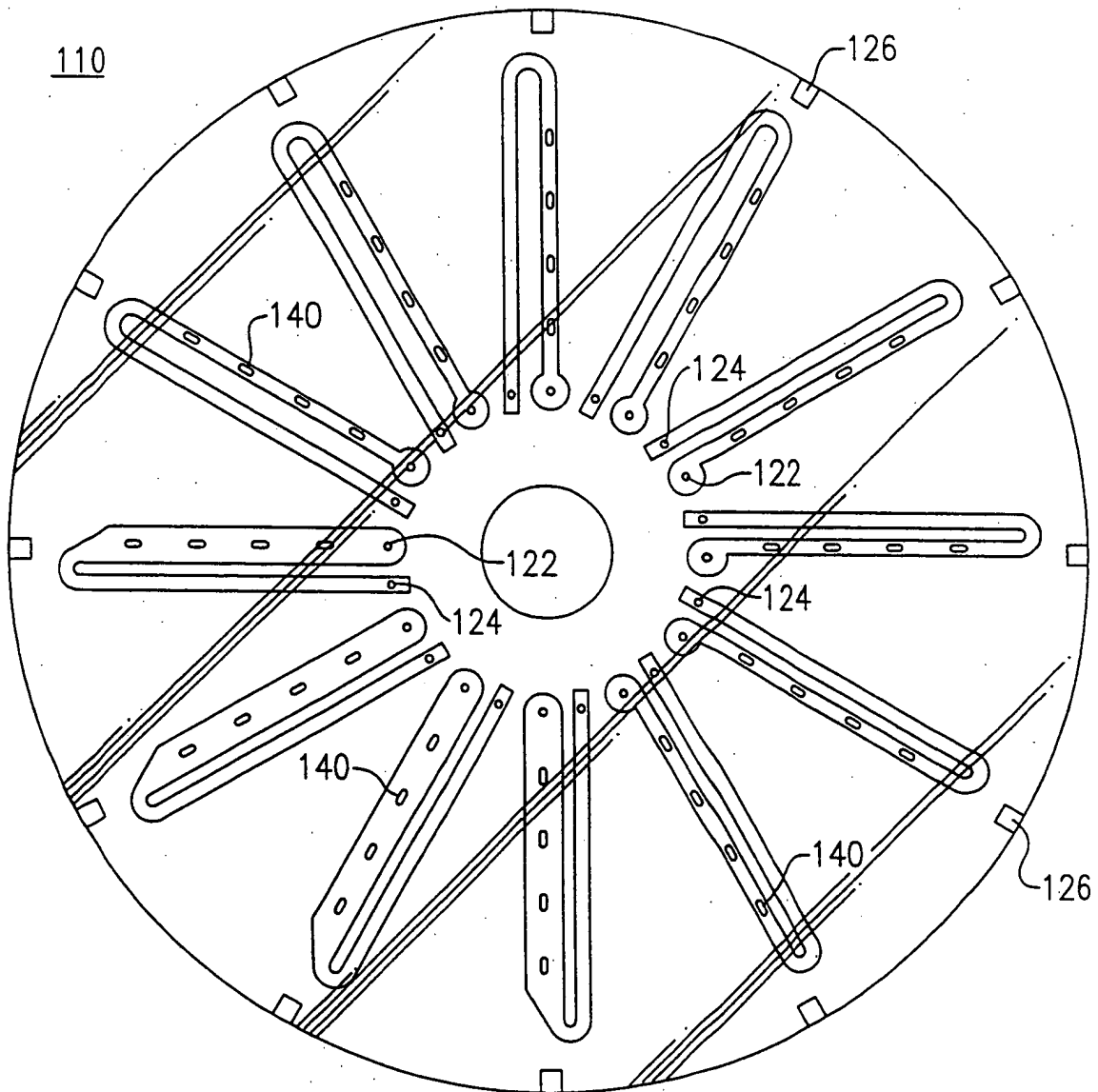


FIG. 3

110

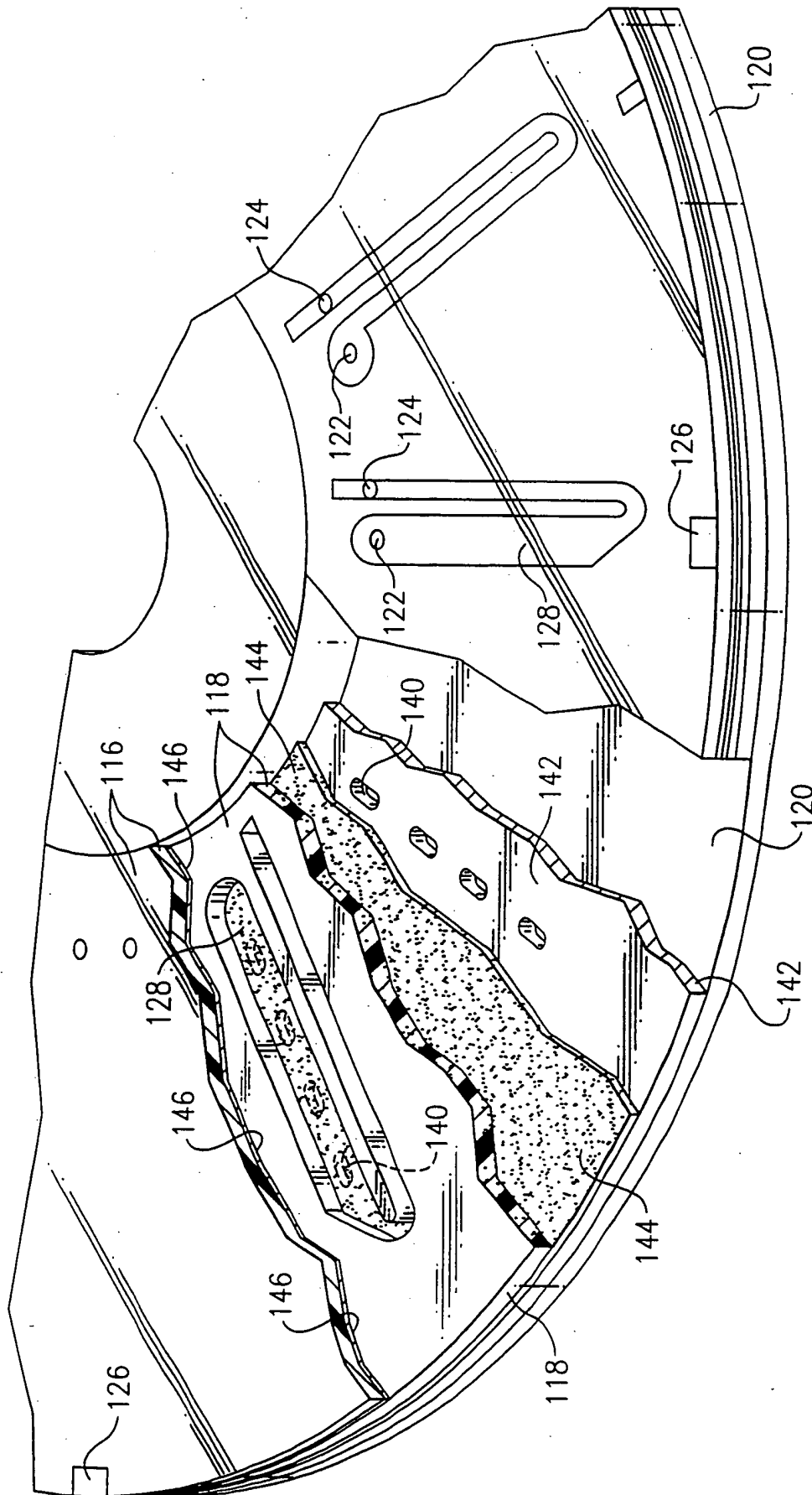
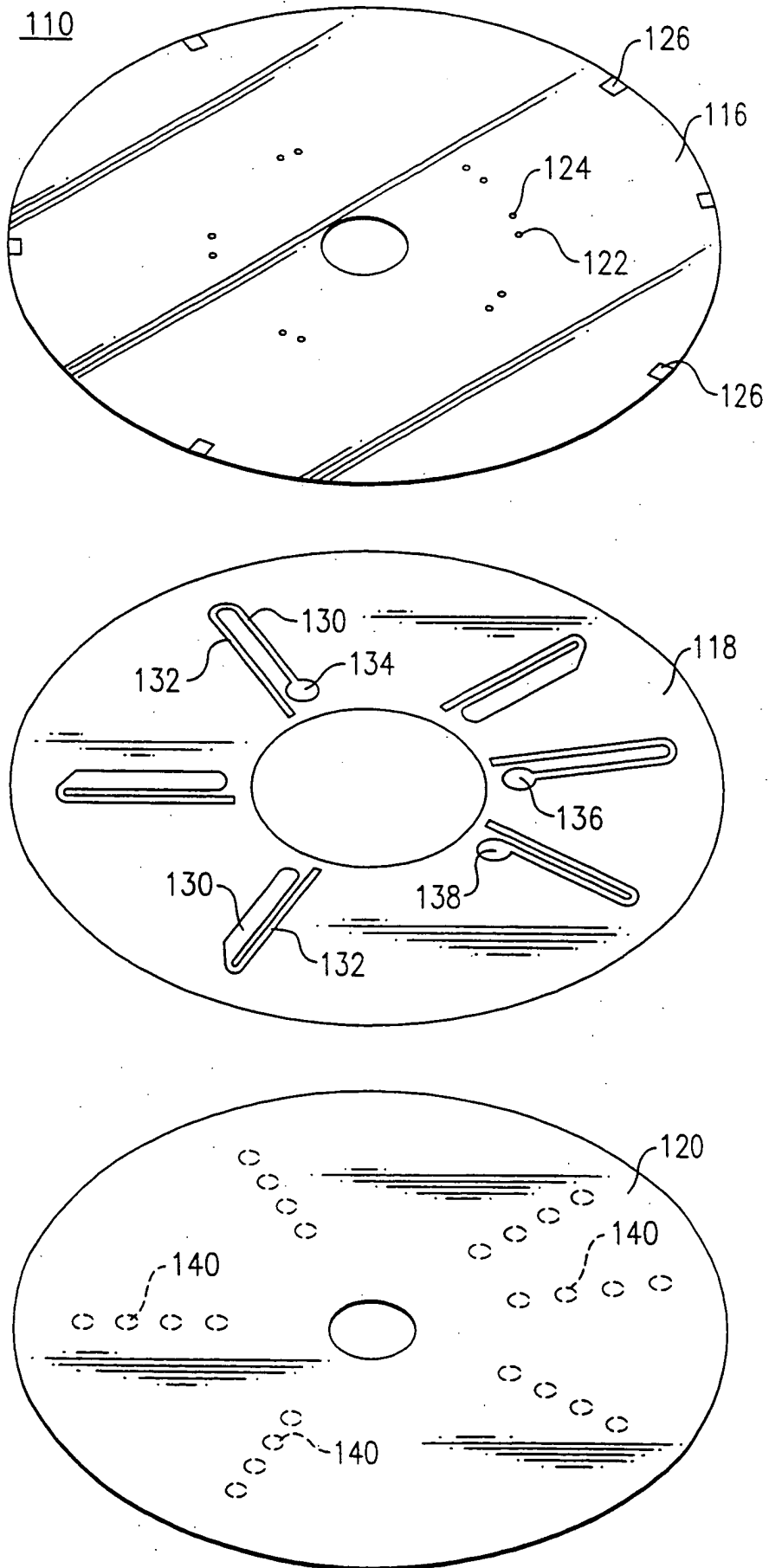
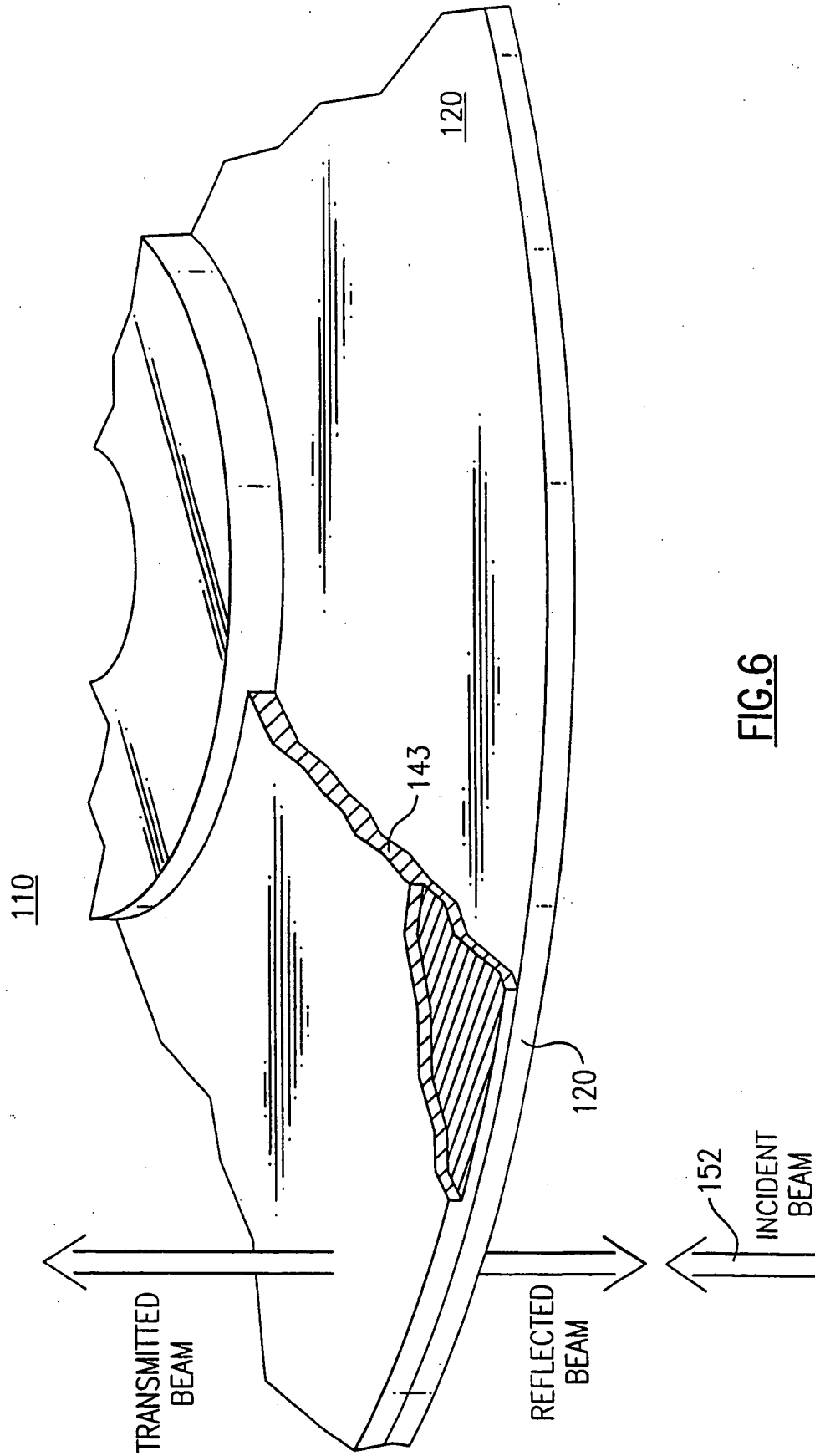


FIG. 4

FIG.5





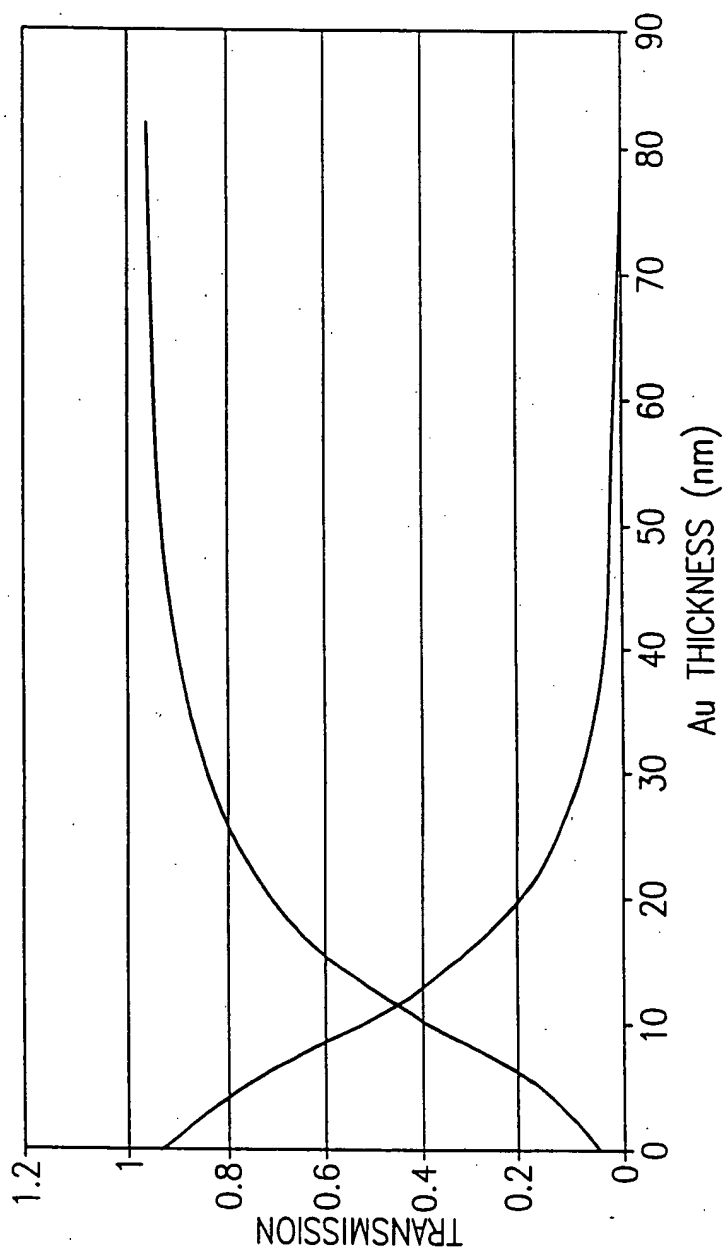


FIG.7

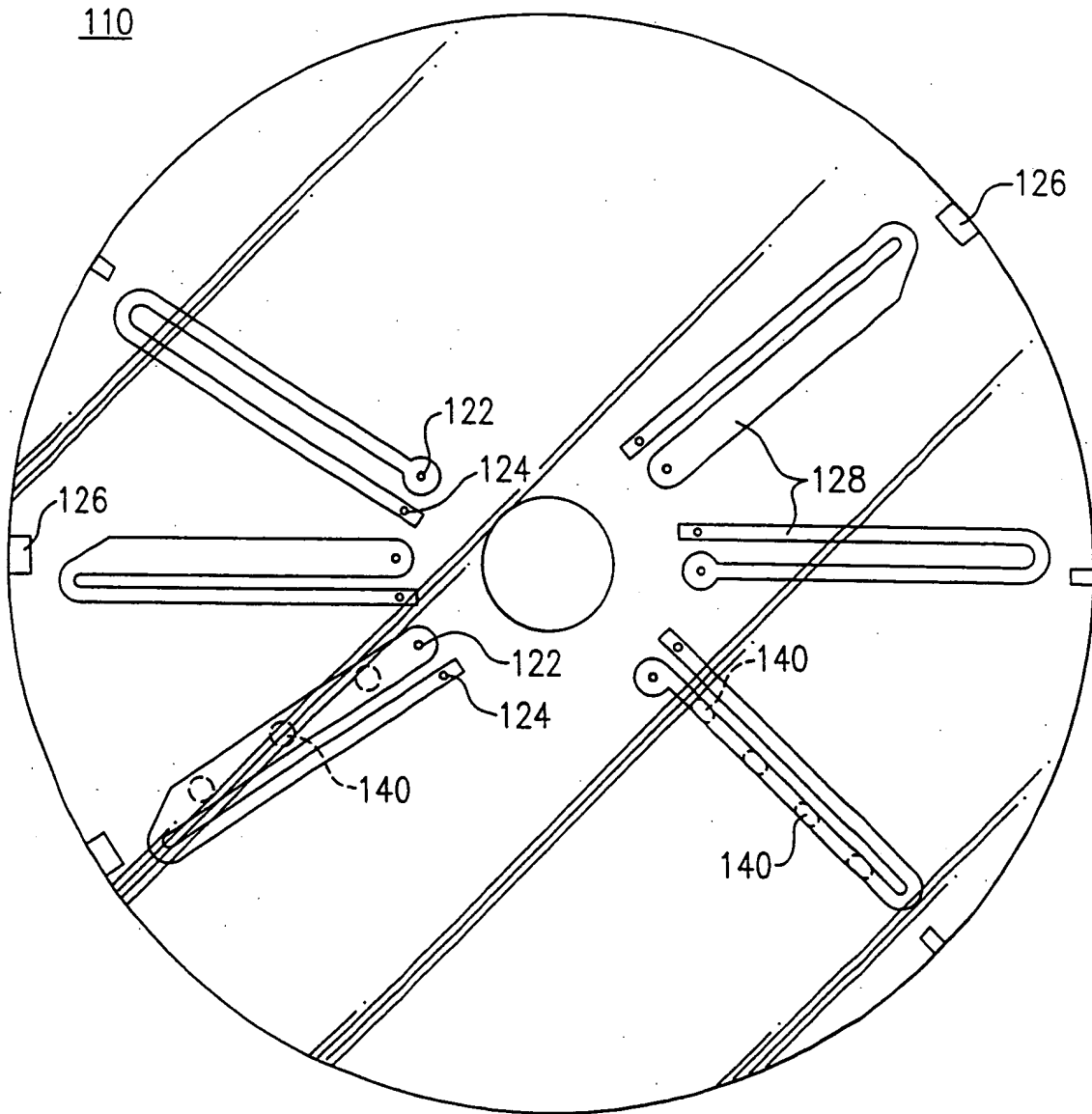
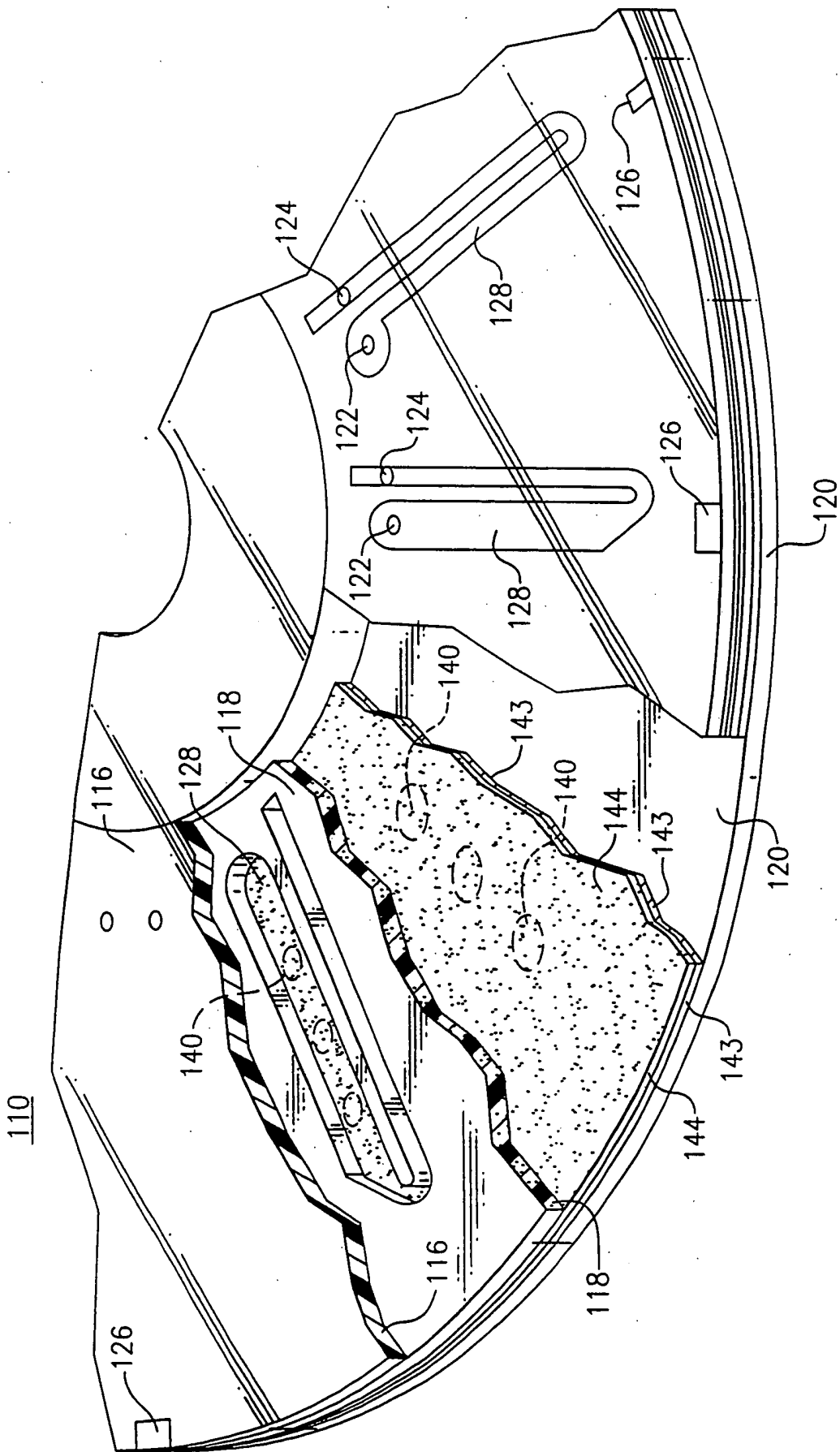


FIG. 8





**FIG. 9**

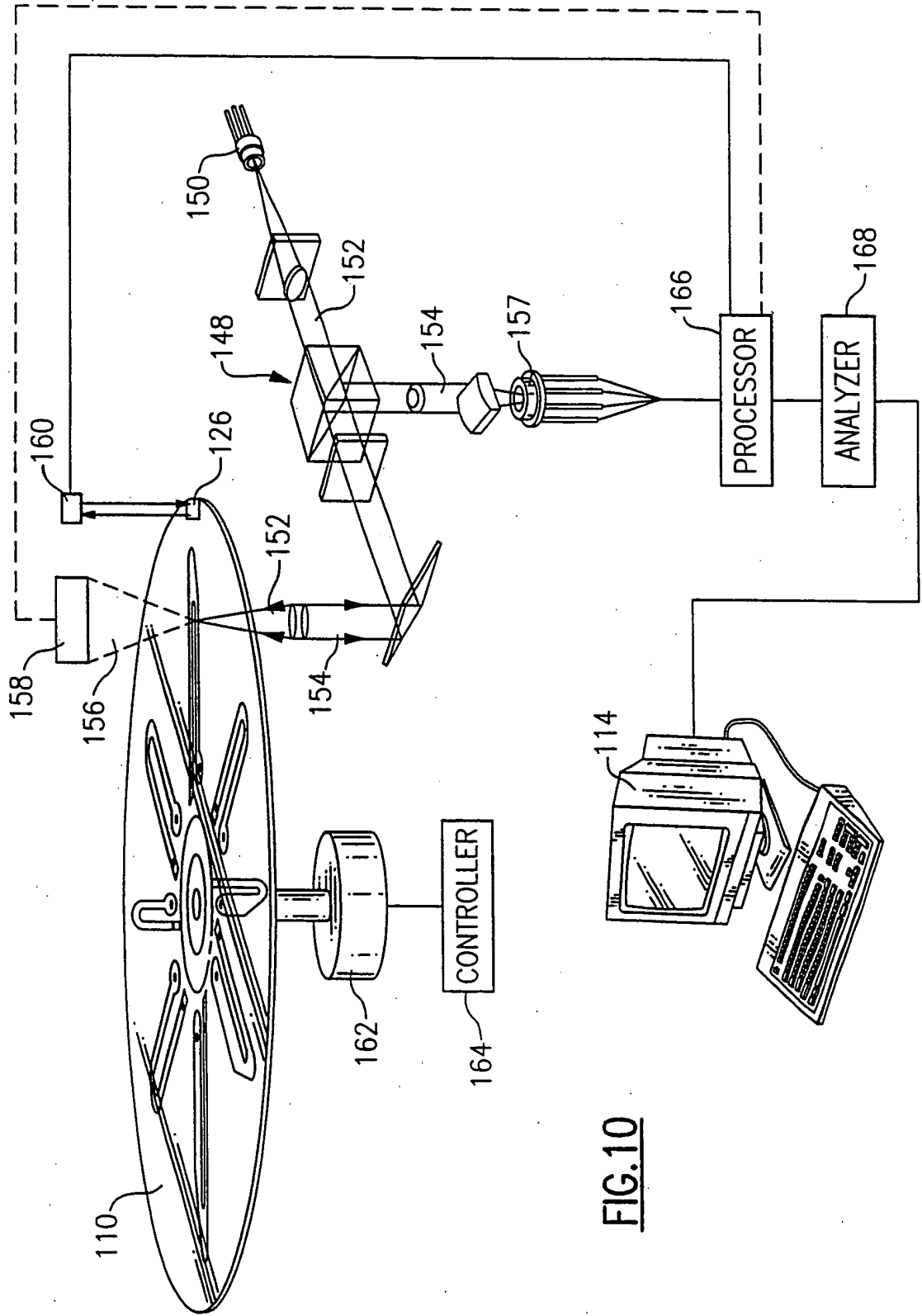
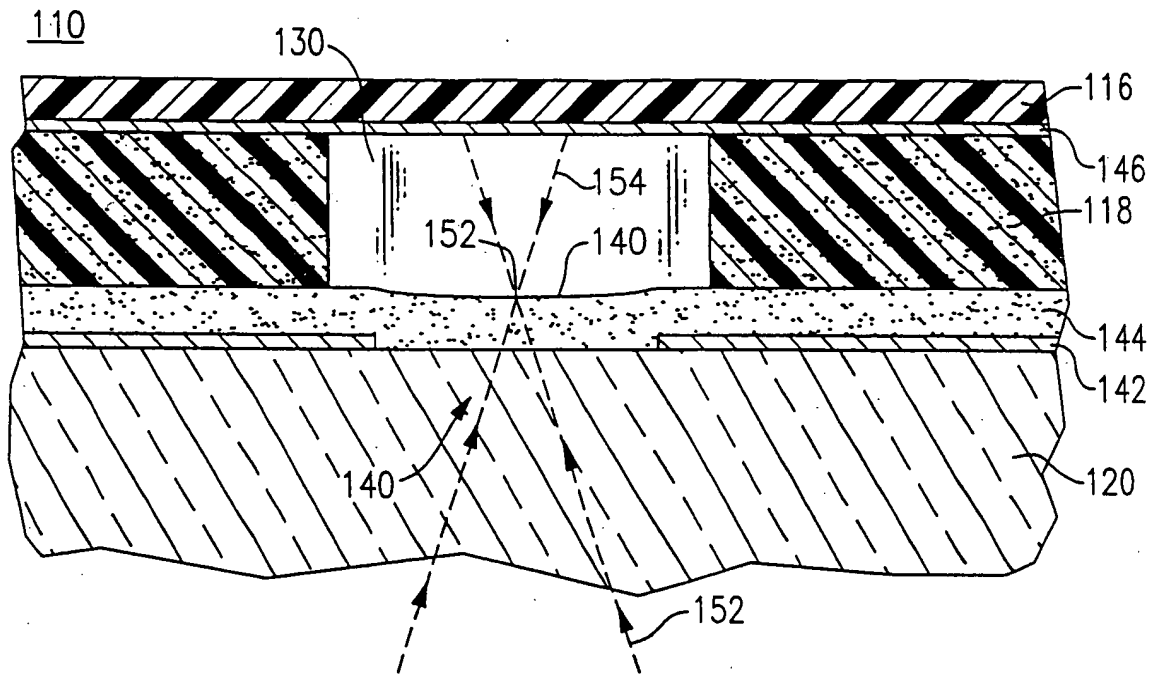
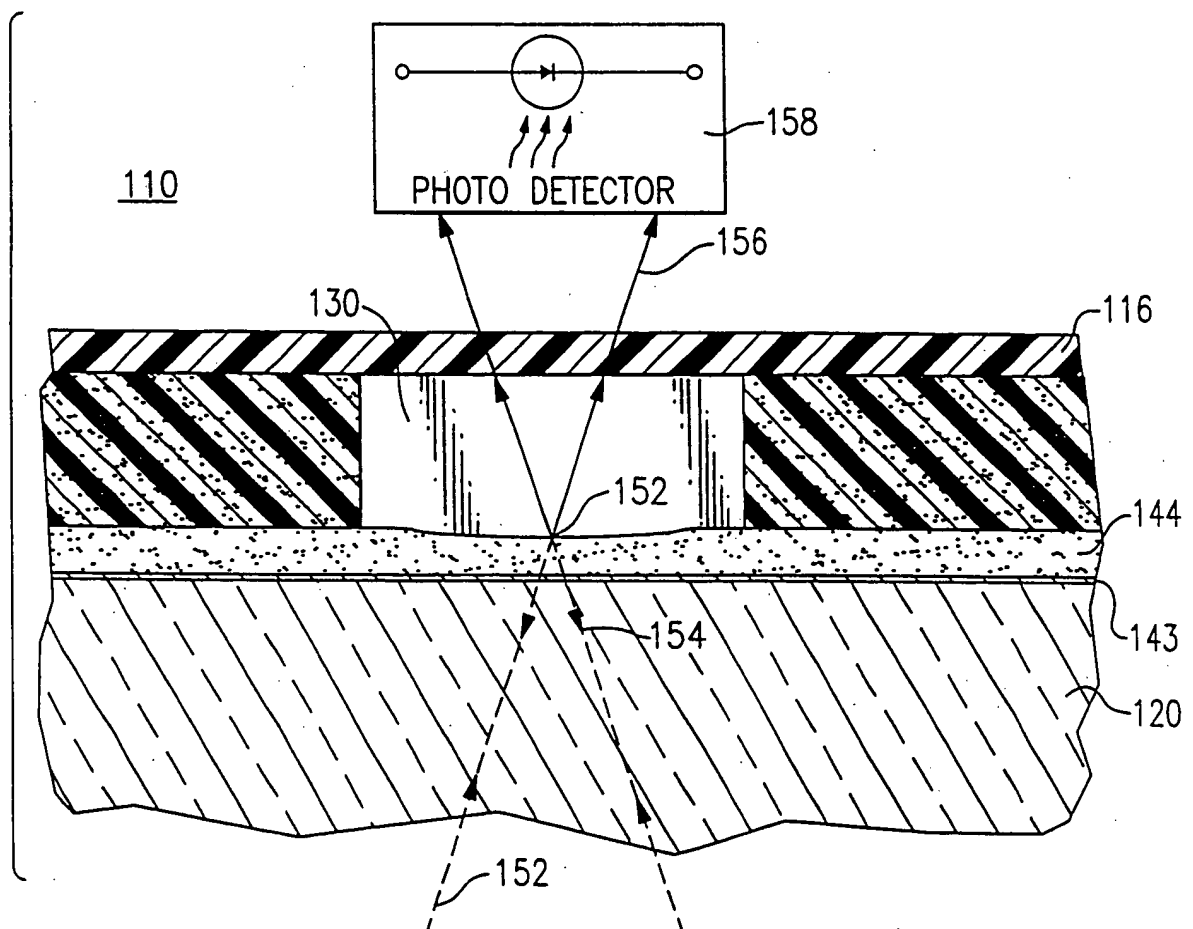


FIG.10



**FIG. 11**



**FIG. 12**

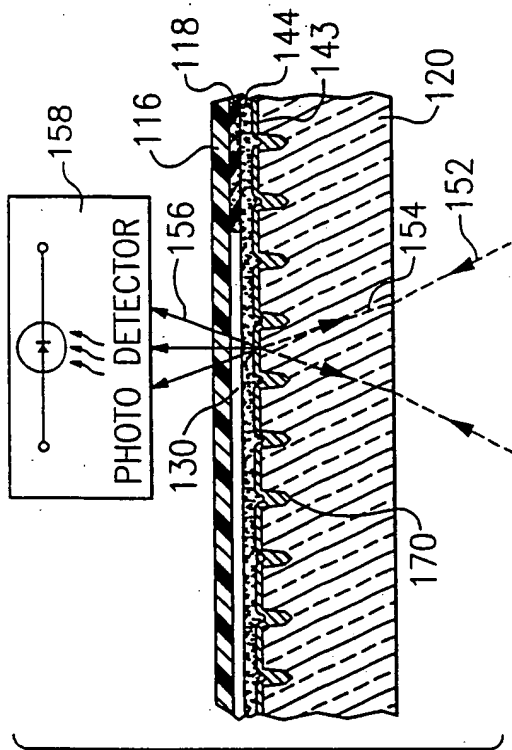


FIG. 14

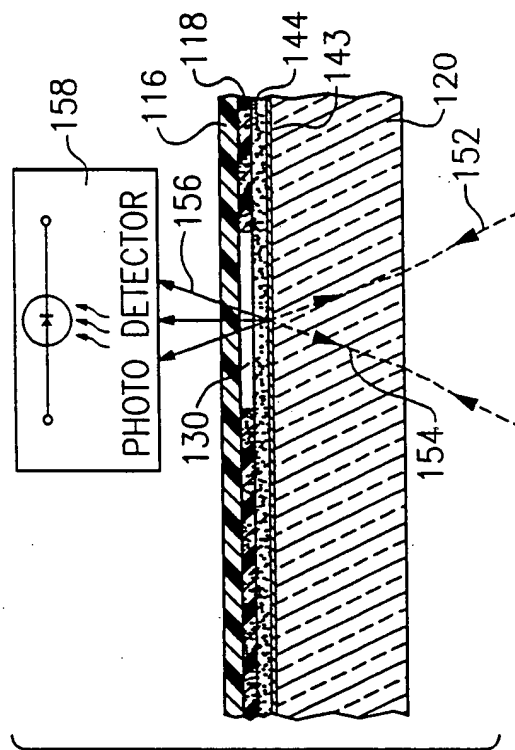


FIG. 16

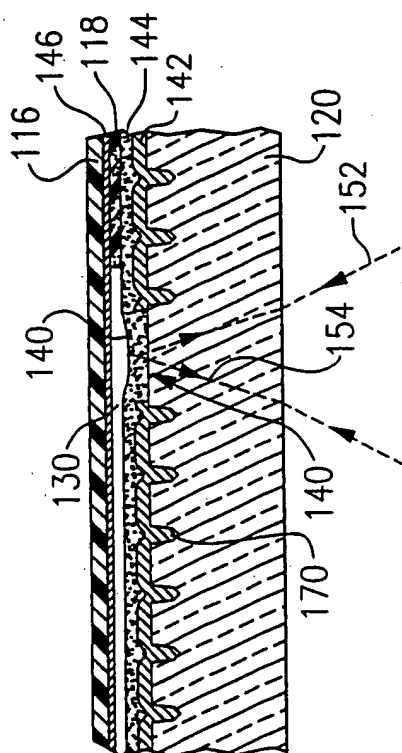


FIG. 13

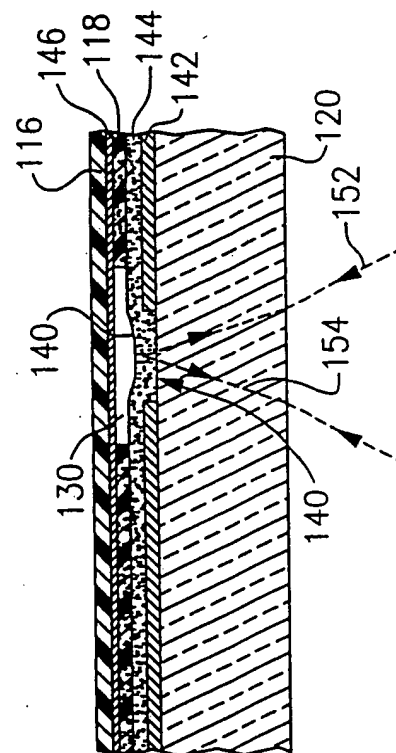
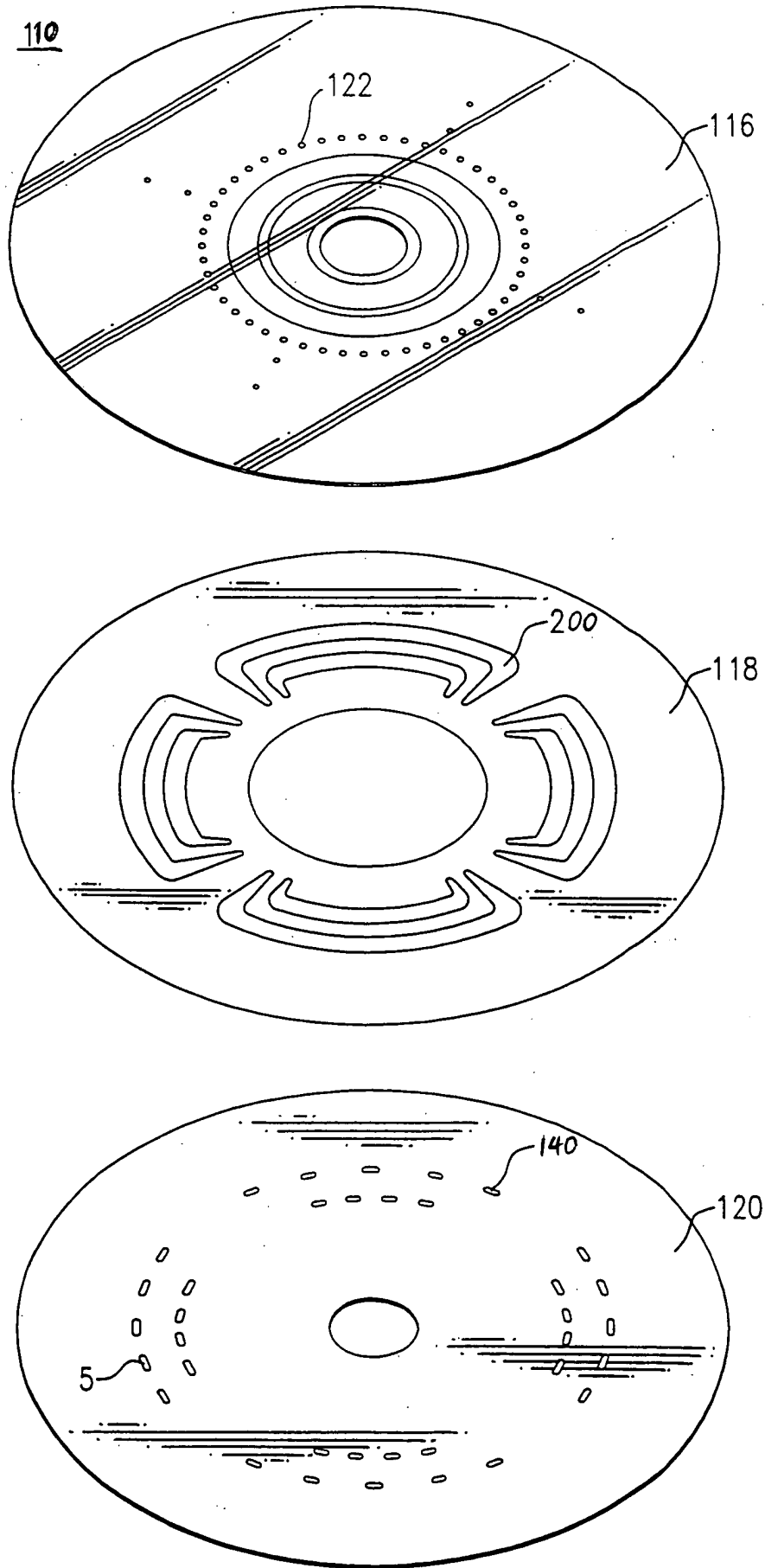


FIG. 15

FIG.17 A



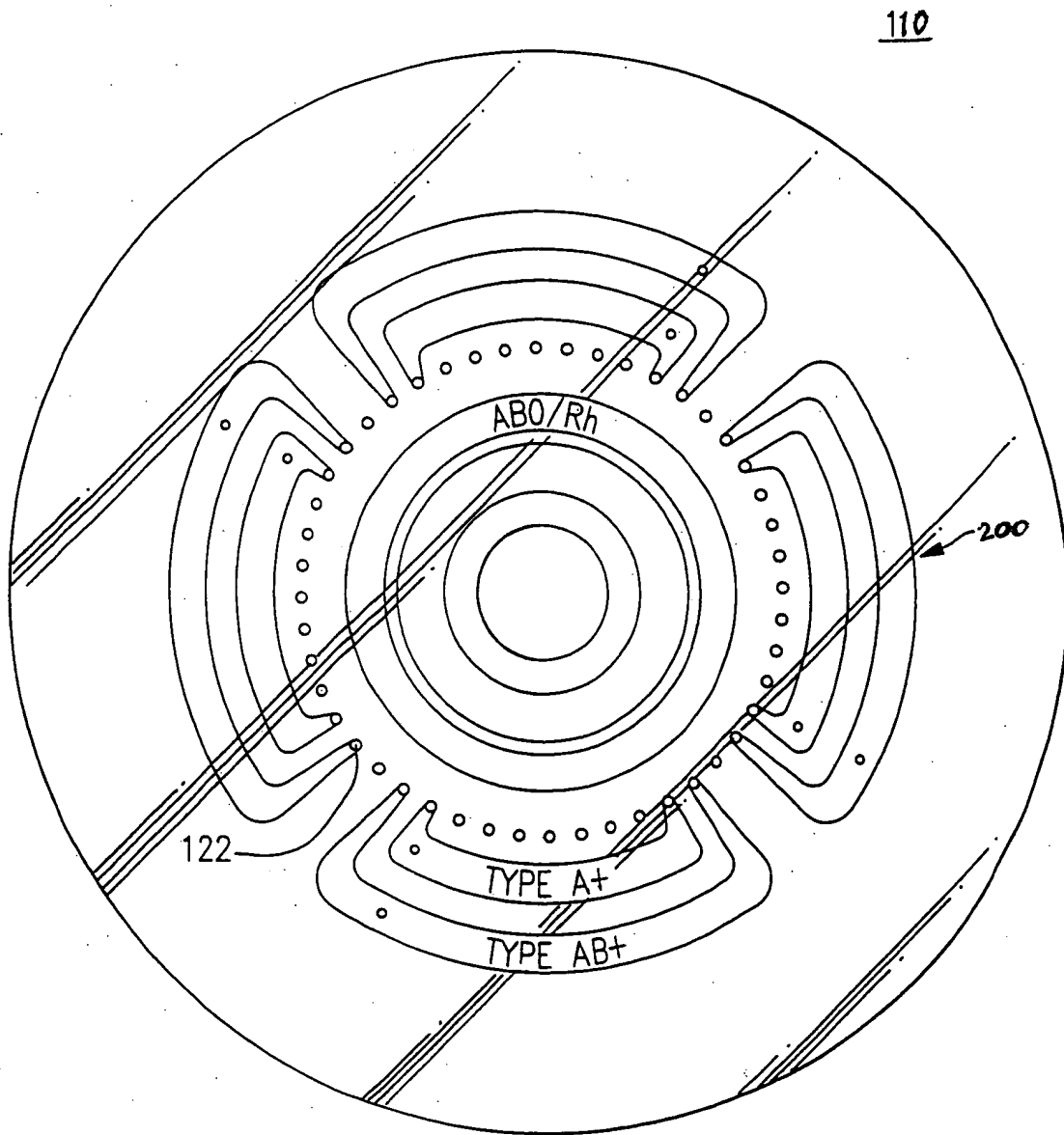


FIG. 17B

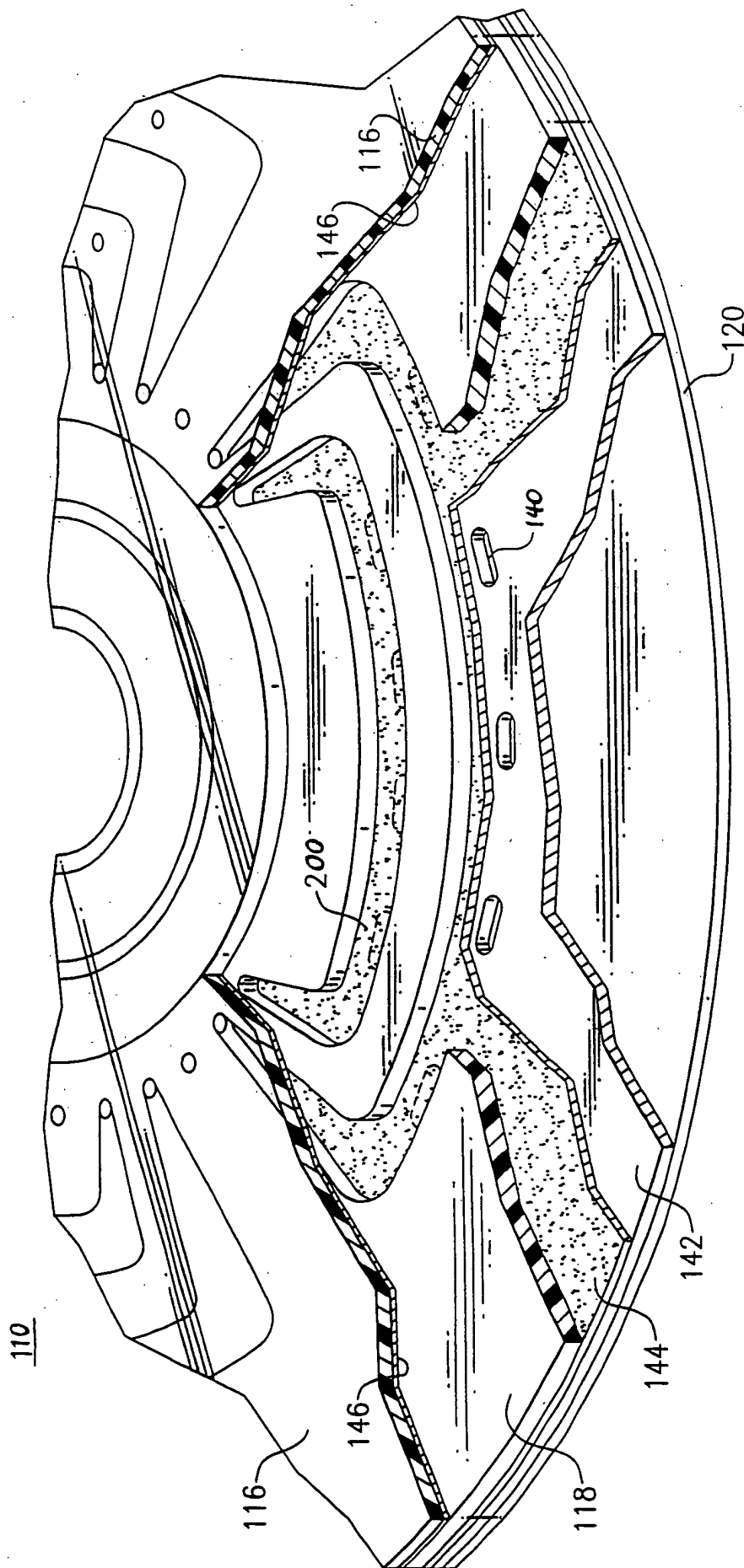
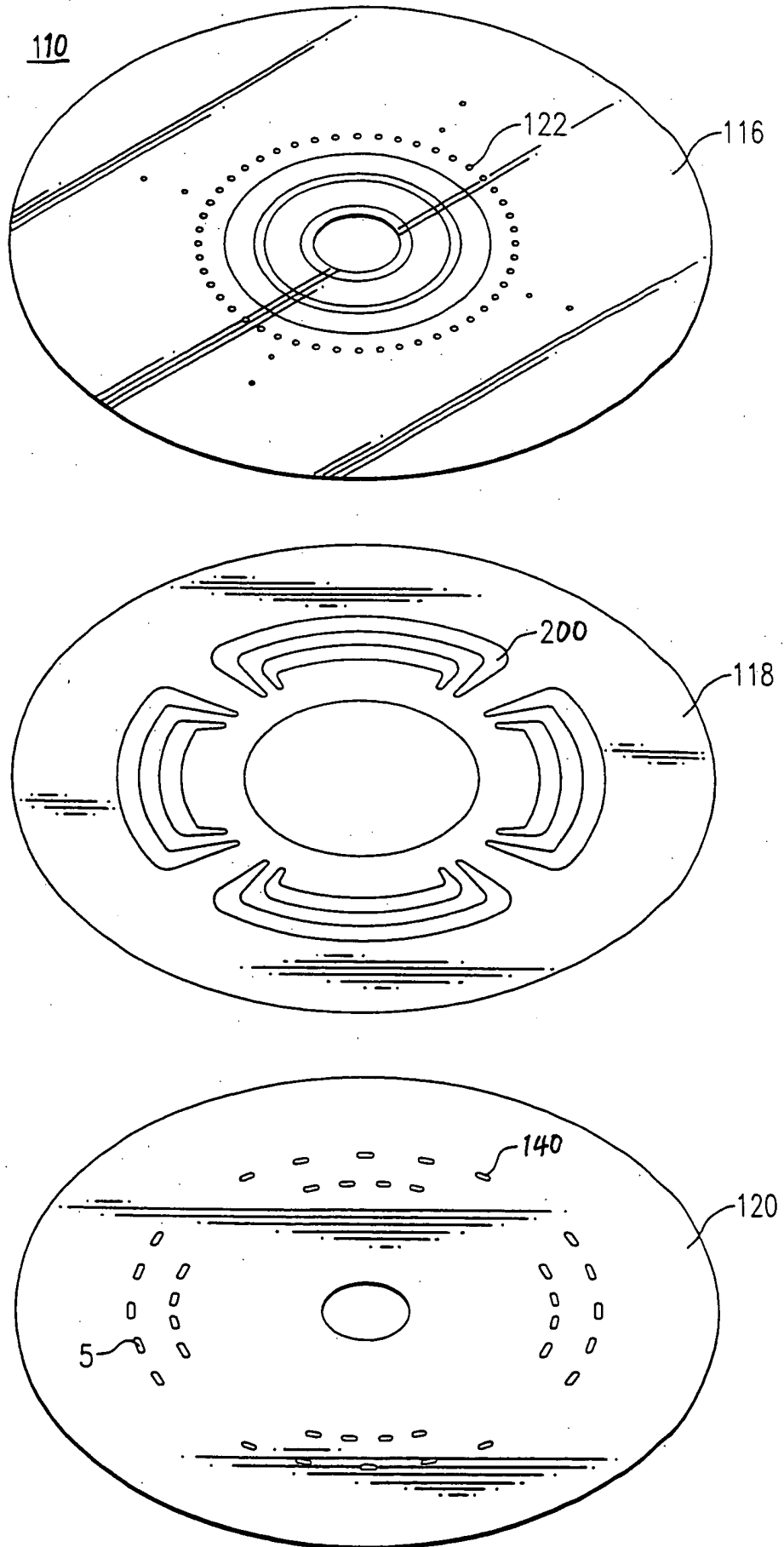


FIG. 17C

**FIG.18 A**





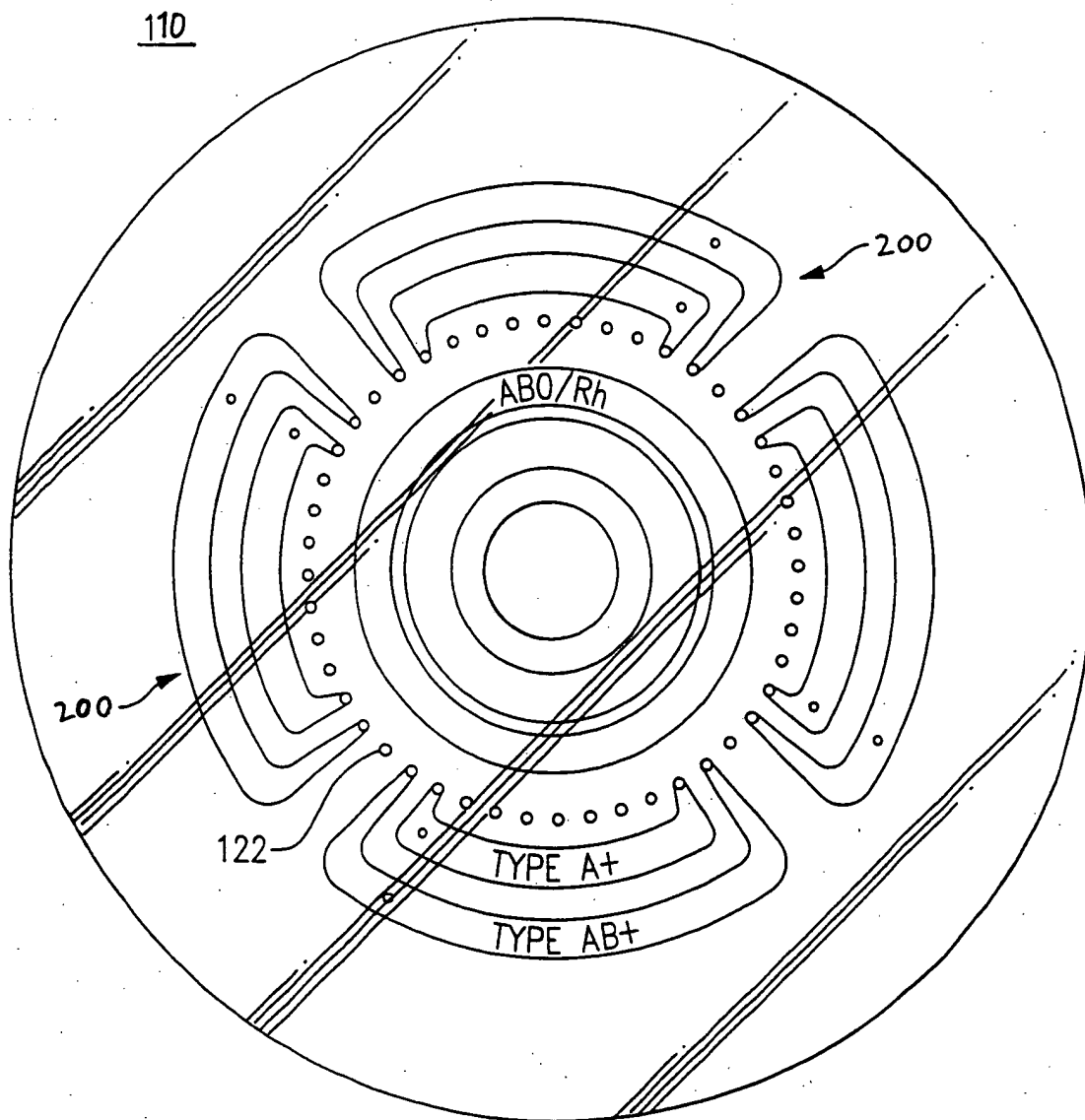


FIG. 18B

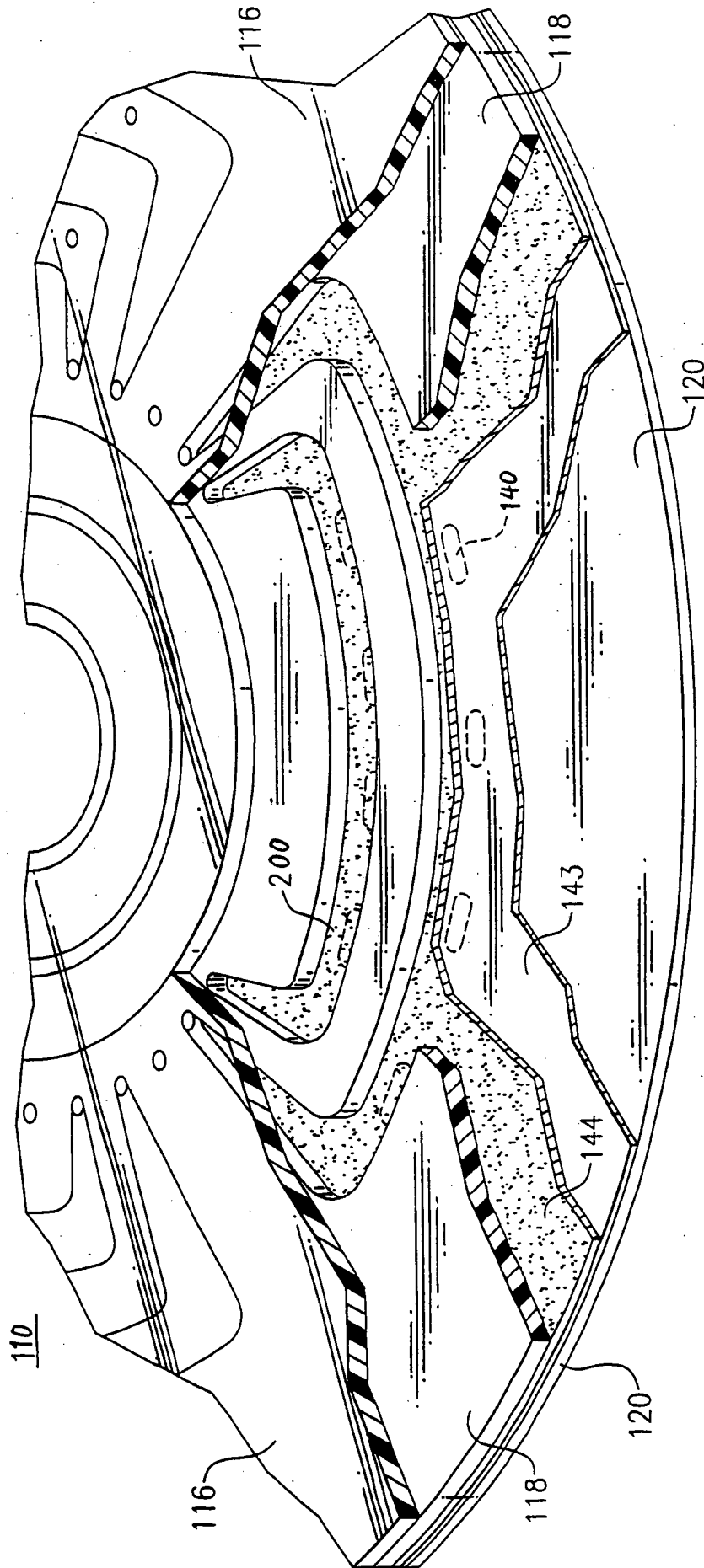


FIG. 18 C

# CD-Derived Hemoglobin Dose-Response Images

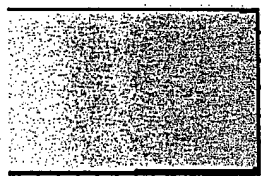
## Hemoglobin Ao



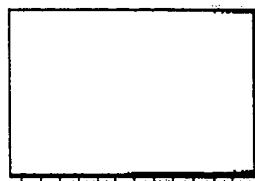
1000 ng/mL



500 ng/mL

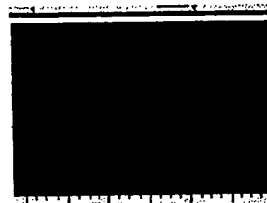


100 ng/mL



10 ng/mL

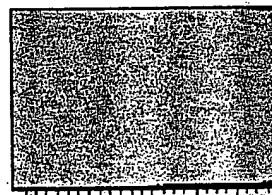
## Hemoglobin A1c



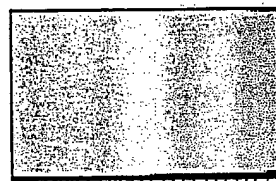
1000 ng/mL



500 ng/mL



100 ng/mL



10 ng/mL

FIG. 19

Typical Standard Curves for Non-Glycated Human Hemoglobin (HgAo) and Glycated Hemoglobin (HgA1c) on an Optical U-Channel Disk (BCD™)

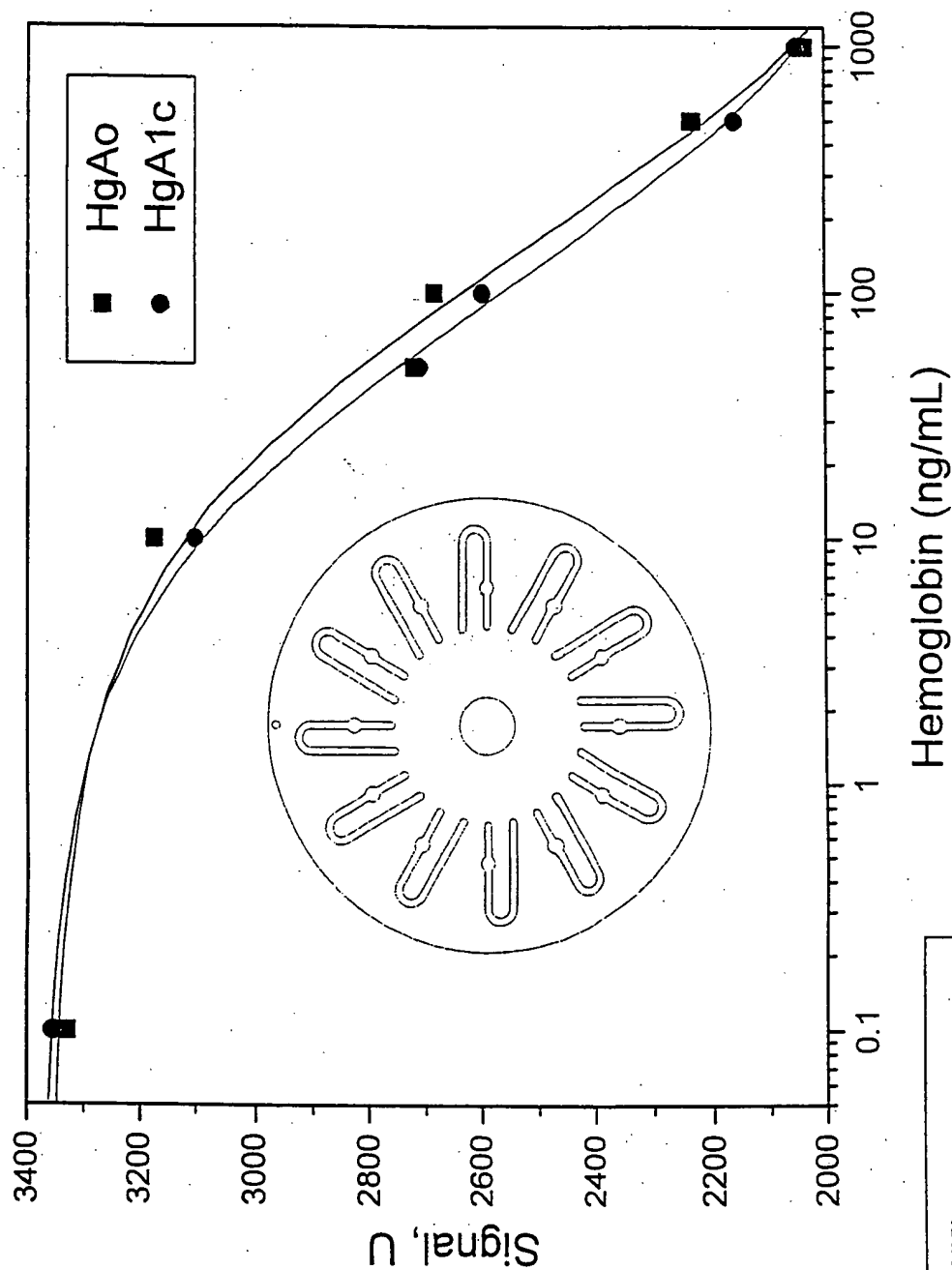


FIG. 20

Immunoassay Conditions:  
 Immobilized Haptoglobin on Disk: 100 ng/mL  
 Dilution of Goat anti-Human Hemoglobin  
 (HRP-labeled): 1 : 4000

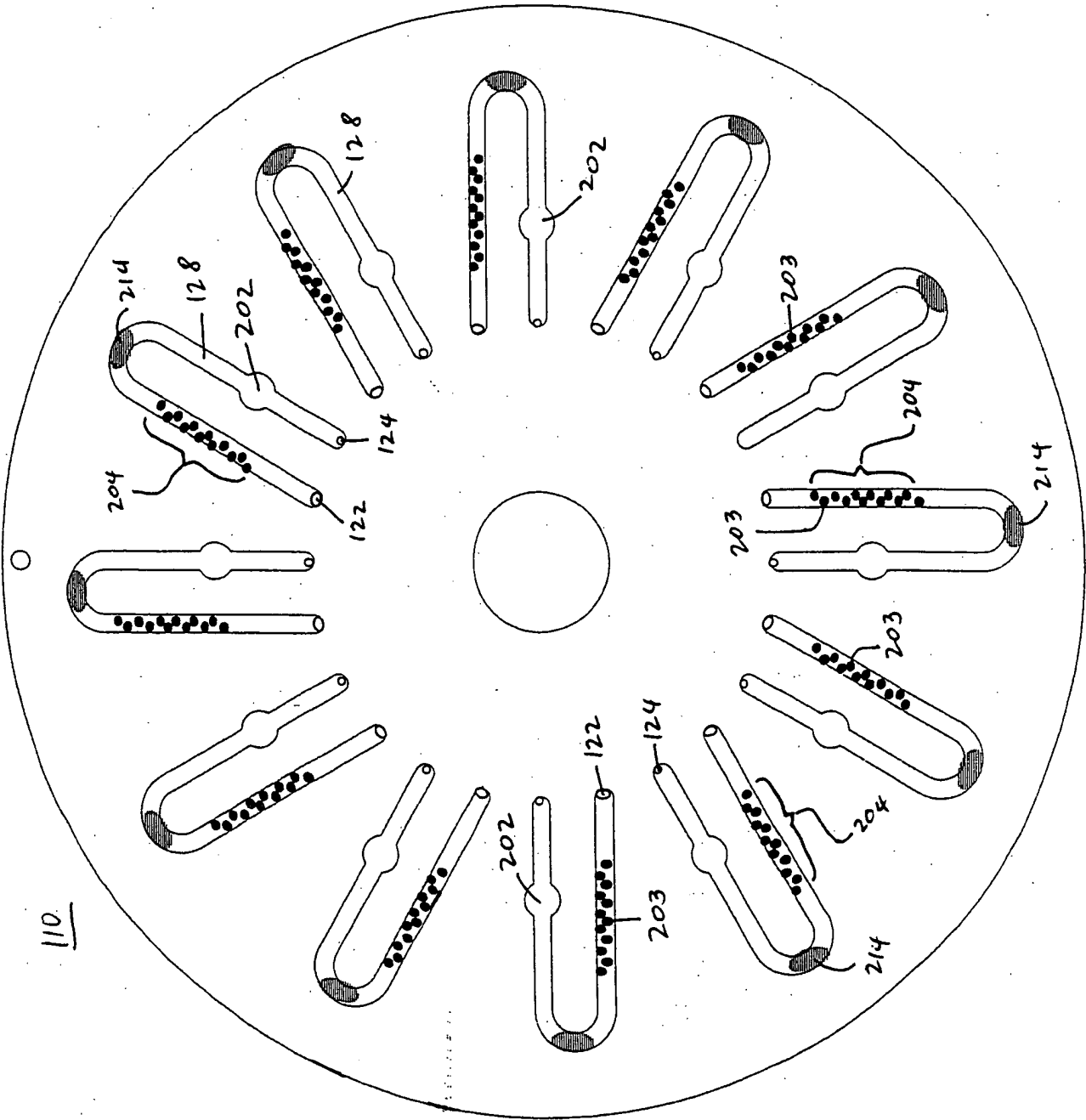
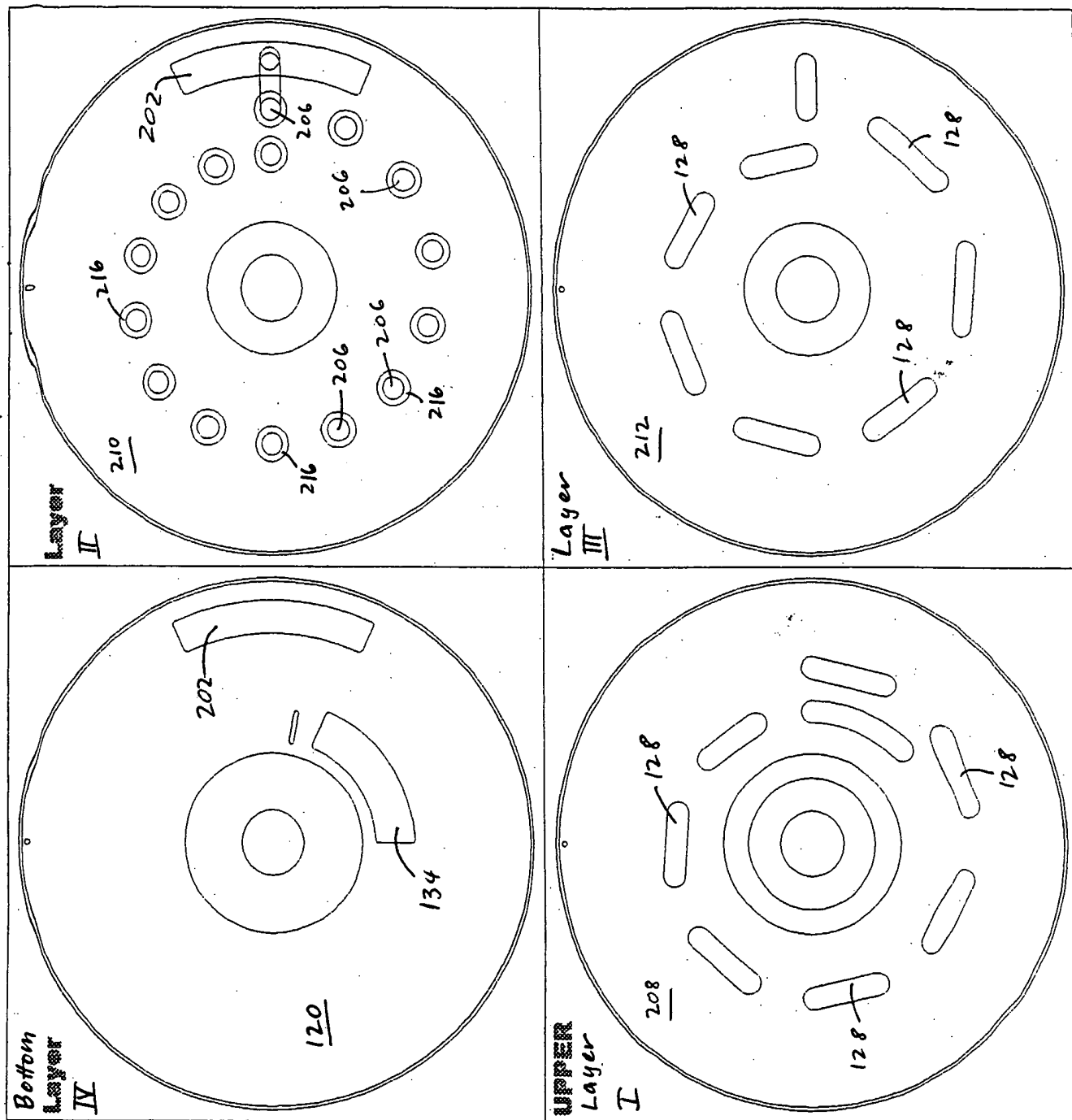


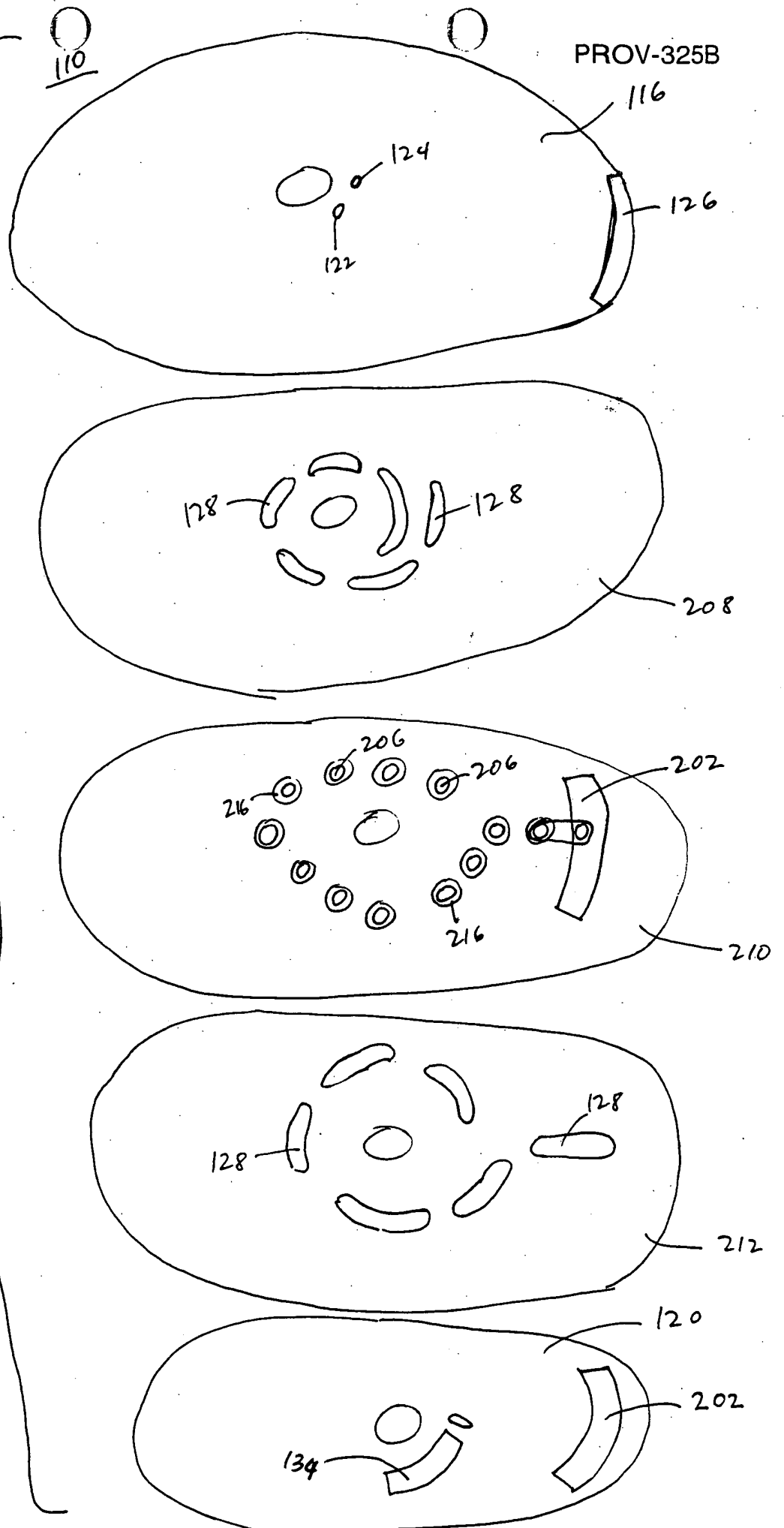
FIG. 21



Disc Layer Assembly:  
(Top to Bottom)  
I. Upper channel layer  
II. Middle membranelayer  
III. Lower channel layer  
IV. Bottom substrate layer

Note: A top most cap layer (116) with the inlet and vent ports IT not shown.

FIG. 22B



110

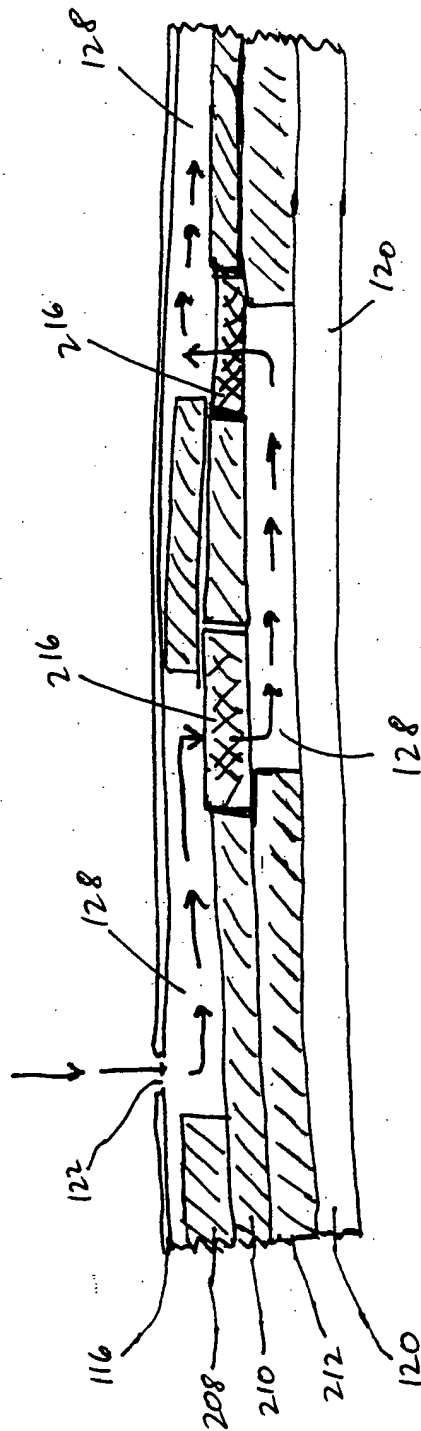


FIG. 22C